

Applications:



**M93 Gas-Particulate
Filter Unit**



**NBC Filtration
for M1A2 Main
Battle Tank**



**Chemical Biological
Protective Shelter (CBPS)**

Ordering Data:

Gas-Particulate Filter, M48A1 4240-01-363-1311

Contact Item Manager for availability and current pricing information.

Size / Weight:

Exterior Dimensions (approximate): 12" OD x 14" H

Inlet Port: 3.5" ID

Outlet Port: 4.25" ID

Item Weight: 28 lbs

Packaged Weight: 30 lbs

For Additional Information, Contact:

Item Manager: Soldier, Biological and Chemical Command
Attn: AMSSB-HB (RI), Rock Island, IL 61299-7390
Phone: (309) 782-6609 or (309) 782-5455

Materiel Developer: Edgewood Chemical Biological Center
Attn: AMSSB-REN-P, APG, MD 21010-5424
Phone: (410) 436-5682 or (410) 436-5512

Or Email:



M48A1 Gas-Particulate Filter, 100 CFM



**NBC
Gas-Particulate
Filtration**

Use/Function:

The 100 CFM M48A1 Gas-Particulate Filter provides a source of clean air, protecting against chemical/biological warfare agents and radiological particles. The versatile M48A1 filter is used in a variety of filter/blower applications designed for in-line airflow patterns, including the M93 Gas-Particulate Filter Unit (GPFU), the M1A2 Main Battle Tank, and the Chemical Biological Protected Shelter (CBPS).

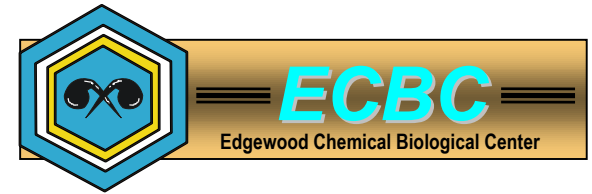
Physical Description:

The 100 CFM M48A1 Gas-Particulate Filter is a 2-stage filter with integral particulate and gas filter elements. Air flows in a radial pattern through the concentric cylinder-shaped filter elements. The filter set measures approximately 12" OD x 14" H and weighs 28 lbs unpackaged.

Contaminated air flows into the filter through a 3.5" ID Inlet Port and is then directed through the 100 CFM Particulate Filter Element. The particulate filter element contains a High Efficiency Particulate Air (HEPA) filter media. The HEPA media is pleated to maximize surface area for collecting sub-micron size particles, such as biological and radiological particles. The partially filtered air then flows through the 200 CFM Gas Filter Element, which contains a tightly-packed bed of activated carbon impregnated with copper, silver, zinc and molybdenum salts, and triethylenediamine (ASZM-TEDA). The ASZM-TEDA carbon adsorbs chemical agent vapors and aerosols. The filtered air flows around the outside of the gas filter element, directed toward the filter's 4.25" ID Outlet Port.

Design Characteristics:

- 100 CFM radial airflow pattern through integral particulate and gas filter elements.
- Rugged, aluminum filter housing with CARC-painted exterior surfaces.
- Standardized size, making it useable in a variety of filtration applications.
- Effective filtration at temperatures ranging from -60°F to +160°F.
- Filter components and filter media materials are resistant to fungus and mildew.
- 5-year extendable shelf life.



M48A1 Gas-Particulate Filter Components and Features

Unfiltered air flows through the Inlet Port into the particulate filter element.

Rugged, aluminum Filter Housing has CARC paint on exterior surfaces.

100 CFM Particulate Filter Element with pleated HEPA filter media collects biological and radiological particulates.

100 CFM Gas Filter Element with activated TEDA carbon adsorbs chemical vapors and aerosols.

After passing through the gas filter element, the filtered air flows through the Outlet Port.

